

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY **REGION 5** 77 WEST JACKSON BOULEVARD

CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF

GENERAL NOTICE LETTER URGENT LEGAL MATTER PROMPT REPLY NECESSARY CERTIFIED MAIL: RETURN RECEIPT REQUESTED

NOV 03 2016

Mr. Philip C. Wolf Senior Vice President, General Counsel and Secretary Cyprus Amax Minerals Company 9100 East Mineral Circle Englewood, Colorado 80112

Re:

General Notice Letter for the U.S. Smelter and Lead Refinery, Inc. Site in East

Chicago, Indiana

Site Spill Identification Number: 053J

Dear Mr. Wolfe:

Under the Comprehensive Environmental Response, Compensation, and Liability Act ("CERCLA"), commonly known as the federal "Superfund" law, the U.S. Environmental Protection Agency ("EPA") is responsible for responding to the release or threat of release of hazardous substances, pollutants or contaminants into the environment – that is, for stopping further contamination from occurring and for cleaning up or otherwise addressing any contamination that has already occurred. The EPA has documented that such a release has occurred at the U.S. Smelter and Lead Refinery, Inc. Site ("the Site") located in East Chicago, Indiana. EPA has spent and anticipates spending additional public funds to investigate and control releases of hazardous substances or potential releases of hazardous substances at or from the Site. Based on information presently available to EPA, EPA has determined that Cyprus Amax Minerals Company ("Cyprus") may be responsible under CERCLA for cleanup of the Site or costs EPA has incurred in cleaning up the Site.

### Explanation of Potential Liability

Under CERCLA, specifically Sections 106(a) and 107(a), potentially responsible parties ("PRPs") may be required to perform cleanup actions to protect the public health, welfare, or the environment. PRPs may also be responsible for costs incurred by EPA in cleaning up the Site, unless the PRP can show divisibility or any of the other statutory defenses. PRPs include current and former owners and operators of a Site, as well as persons who arranged for treatment and/or disposal of any hazardous substances found at the site, and persons who accepted hazardous substances for transport and selected the site to which the hazardous substances were delivered.

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disposal of any hazardous substances found at the site, and persons who accepted hazardous substances for transport and selected the site to which the hazardous substances were delivered.

Based on the information collected, EPA believes that Cyprus may be liable under Section 107(a) of CERCLA with respect to the Site as a successor in interest to United States Metals Refining Company, the owner and operator of the USS Lead facility from approximately 1906 through 1919.

To date, EPA, the State of Indiana and other potentially responsible parties have taken several response actions at the Site under the authority of the Superfund Program. Below is a brief description of the actions taken at the Site.

- Removal Actions including the excavation and off-site disposal of contaminated soils to reduce any immediate threats to the environment or human health posed by the Site.
- A Remedial Investigation (RI) to identify the Site characteristics and to define the nature and extent of soil contamination at the Site and the risks posed by the Site.
- A Feasibility Study (FS) to evaluate different cleanup options for the Site.
- Issuance of a Record of Decision (ROD) dated November 30, 2012, with respect to Operable Unit 1 (OU1) of the Site.
- Negotiation and execution of a Consent Decree dated October 28, 2014, which
  provides for the performance of the work described in the ROD within Zone 1 and
  Zone 3 of OU1.
- Performance of the work described in the ROD throughout OU1.
- Interior lead and arsenic sampling and cleanup of residences within the West Calumet Housing Complex (Zone 1).

#### De Minimis Settlements

Under CERCLA § 122(g) of CERCLA, whenever practicable and in the public interest, EPA may offer special settlements to parties whose waste contribution to a site is minimal in volume and toxicity, that is, *de minimis* parties.

Individuals or businesses resolving their Superfund liability as *de minimis* parties are not typically required to perform site cleanup. Instead, EPA requires *de minimis* settlors to pay their fair share of cleanup costs incurred, plus a "premium" that accounts for, among other things, uncertainties associated with the costs of work to be performed in the future. In return, *de minimis* settlors receive: (1) a covenant not to sue, which is a promise that EPA will not bring

any future legal action against the settling party for the specific matters addressed in the settlement; and (2) contribution protection, which provides a settling party with protection from being sued by other responsible parties for the specific matters addressed in the settlement. Participation in a *de minimis* settlement means that you are settling directly with EPA as soon as it is possible to do so.

If you believe that Cyprus may be eligible for a *de minimis* settlement at this Site, please contact Associate Regional Counsel, Steven Kaiser, at (312) 353-3804 or <u>kaiser.steven@epa.gov</u> for additional information on "*De Minimis* Settlements."

#### Financial Concerns/Ability to Pay Settlements

The EPA is aware that the financial ability of some PRPs to contribute toward the payment of response costs at a site may be substantially limited. If you believe, and can document, that you fall within that category, please contact Associate Regional Counsel, Steven Kaiser, at (312) 353-3804 or <a href="kaiser.steven@epa.gov">kaiser.steven@epa.gov</a> for information on "Ability to Pay Settlements." In response, you will receive a package of information about the potential for such settlements and a form to fill out with information about your finances, and you will be asked to submit financial records including business federal income tax returns. If EPA concludes that Cyprus has a legitimate inability to pay the full amount of EPA's costs, EPA may offer a schedule for payment over time or a reduction in the total amount demanded from you.

Also, please note that, because EPA has a potential claim against you, you must include EPA as a creditor if you file for bankruptcy.

#### **Information to Assist You**

The EPA would like to encourage communication between you, other PRPs, and EPA at the Site. The EPA recommends that all PRPs meet to select a "steering committee" that will be responsible for representing the group's interests. Establishing a manageable group is critical to successful negotiations with EPA. If this is not possible, EPA encourages each PRP to select one person from its company or organization to represent its interests to EPA. Also, there is a website you may visit to learn more about the Site. For extensive information about the Site including ongoing sampling and cleanup work, access: <a href="https://www.epa.gov/uss-lead-superfund-site">https://www.epa.gov/uss-lead-superfund-site</a>.

To assist you in your efforts to communicate, please find the following attached information:

- 1. Site Description and History
- 2. Potentially Responsible Parties General Notice List
- 3. Fact Sheet

the basis for EPA's selection of a cleanup action for the Site. The Administrative Record is located at <a href="https://semspub.epa.gov/src/collection/05/AR62604">https://semspub.epa.gov/src/collection/05/AR62604</a> and is available to you and the public for inspection. The Administrative Record also is located at two other locations for inspection: the East Chicago Public Library, 2401 E. Columbus Drive, East Chicago, Indiana, and the Superfund Records Center, EPA Region 5, 77 West Jackson Boulevard, Chicago, Illinois 60604.

#### **Resources and Information for Small Businesses**

As you may be aware, on January 11, 2002, former President Bush signed into law the Superfund Small Business Liability Relief and Brownfields Revitalization Act. This Act contains several exemptions and defenses to CERCLA liability, which we suggest that all parties evaluate.

The EPA has created a number of helpful resources for small businesses. The EPA has established the National Compliance Assistance Clearinghouse as well as Compliance Assistance Centers which offer various forms of resources to small businesses. You may inquire about these resources at <a href="www.epa.gov">www.epa.gov</a>. In addition, the EPA Small Business Ombudsman may be contacted at <a href="https://www.epa.gov/resources-small-businesses/forms/contact-us-about-resources-small-businesses">https://www.epa.gov/resources-small-businesses/forms/contact-us-about-resources-small-businesses</a>. Finally, the EPA developed a fact sheet about the Small Business Regulatory Enforcement Fairness Act ("SBREFA"), which is enclosed with this letter.

Please give these matters your immediate attention and consider consulting with an attorney. If you have any questions regarding this letter, please contact Associate Regional Counsel, Steven Kaiser, at (312) 353-3804 or <a href="mailto:kaiser.steven@epa.gov">kaiser.steven@epa.gov</a>. Thank you for your prompt attention to this matter.

Sincerely,

Joan Tanaka, Chief

Remedial Response Branch #1

**Enclosures** 

cc: Steven Kaiser, Associate Regional Counsel

Lisa McCoy, Indiana Department of Environmental Management

Annette Lang, Department of Justice

#### bcc:

Thomas Alcamo, Remedial Project Manager (SR-6J)
Timothy Drexler, Remedial Project Manager (S-R-6J)
Mike Rafati, Enforcement Specialist (SE-5J)
Carolyn Bohlen, Enforcement Service Section Chief (SE-5J)
Todd Quesada, Superfund Records Center (SM-7J)
Leo Chingcuanco, ORC (C-14J)
Mary Fulghum, ORC (C-14J)

## 6 Enclosure 1

### Site Description and History

The U.S. Smelter and Lead Refinery, Inc. Superfund Site (the Site) is located within the city of East Chicago in Lake County, Indiana. The EPA has divided the Site into two Operable Units, Operable Unit 1 (OU1) and Operable Unit 2 (OU2). OU2 consists of the former U.S. Smelter and Lead Refinery, Inc. (USS Lead) facility while OU1 is comprised of a residential neighborhood located north and east of the USS Lead facility.

OU1 consists of the surface and subsurface soil (but not the groundwater) within the following geographic boundaries: on the north East Chicago Avenue; on the east Parrish Avenue; the south East 151st Street/149th Place; and on the west the Indiana Harbor Canal. OU1 is a residential area known as the Calumet neighborhood, which includes a low-income housing project, single-family residences, multi-family residences, an elementary school, numerous public parks and various small commercial structures.

OU2 consists of the former USS Lead facility located at 5300 Kennedy Avenue. This 79-acre parcel contained a lead refinery and smelting complex that operated principally as a primary lead smelter and lead refinery from approximately 1906 to 1973, but also had secondary smelting operations during a significant part of that time. In 1973, the facility started operating exclusively as a secondary lead smelter. All smelting operations at the USS Lead facility ceased in 1985. OU2 is bounded to the east by Kennedy Avenue, to the north by the Indiana Harbor Belt Railroad, to the northwest by the Indiana Harbor Canal, and to the south and west by the Grand Calumet River. USS Lead is the current owner of OU2 and has owned OU2 since February 4, 1920. OU2 also includes the groundwater beneath OU1.

USS Lead owned and operated a lead refinery and smelter at the Site from 1920 until 1973 that, among other metals, annually processed between approximately 30,000 and 40,000 tons of lead product and released to the environment associated lead and arsenic production wastes. Between 1973 and 1985, USS Lead exclusively operated a secondary lead smelter at the Site that recovered lead from various materials including the following: lead batteries, plates, and elements; miscellaneous lead scrap; reverberatory slag; dross; gel cell trimmings; sump waste / sludge; scrap battery lead; remelted material; oxide; baghouse dust and floor sweepings; past; hazardous waste; and unknown or unidentified material. Prior to 1920, the USS Lead facility was owned by the United States Metals Refining Company.

USS Lead generated two primary waste materials as a result of the smelting operations: (1) blast-furnace slag and (2) lead-containing dust emitted from the stack of the blast-furnace. These waste materials contained hazardous substances including lead and arsenic. Blast furnace slag was stockpiled south of the plant building and spread annually over an adjoining 21 acre wetland. The blast-furnace baghouse collected approximately 300 tons of baghouse flue dust per month during maximum operating conditions. Some of the baghouse dust was reintroduced into the furnace for additional lead recovery. By the late 1970s approximately 8,000 tons of

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baghouse dust were stored outside at the facility. Air emissions that contained lead and arsenic were released into the atmosphere through one or more stacks and, along with emissions from other sources, contaminated OU1 and OU2.

On April 8, 2009, U.S. EPA placed the entire Site (both OU1 and OU2) on the National Priorities List (NPL) by publication in the Federal Register, 74 Fed. Reg. 16,126-34. On November 30, 2012, EPA issued a Record of Decision (ROD), which sets forth the remedial action to be implemented at OU1. The remedial action includes excavation and off-site disposal of soil with lead concentrations exceeding 400 milligrams per kilogram (mg/kg) and arsenic concentrations exceeding 26 mg/kg, to a maximum depth of two feet. At industrial or commercial properties, EPA will clean up lead that exceeds 800 mg/kg.

On October 28, 2014, the United States and the State of Indiana reached an agreement with the Atlantic Richfield Company and E.I. DuPont de Nemours and Co., (DuPont) for the cleanup of parts of OU1. The agreement is embodied in a federal consent decree entered by the United States District Court, Northern District of Indiana (2:14-cv-312). Under the consent decree, EPA will conduct the cleanup work in the neighborhood using funding provided by the two companies. The EPA will identify the yards that need to be remediated, work with property owners to develop property-specific drawings showing which soils on the property must be excavated, conduct the excavation work, and restore the properties after excavation is completed. Atlantic Richfield and DuPont will pay for EPA's work and also will transport the contaminated soil out of the neighborhood for proper disposal.

To manage the cleanup, EPA and the State of Indiana divided OU1 into three zones. The October 2014 consent decree covers Zone 1 and Zone 3. Cleanup of Zone 2 and the reimbursement of past costs incurred by EPA in connection with OU1 will be the subject of the next round of negotiations with all PRPs.

# 8 **Enclosure 2**

## Potentially Responsible Parties General Notice List

Atlantic Richfield Company Michael H. Elam Barnes & Thornburg LLP One North Wacker Drive Suite 4400 Chicago, Illinois 60606 (312) 214-5630

Atlantic Richfield Company C/O British Petroleum Douglas S. Reinhart 150 W. Warrenville Road Mail Code 200-1W Naperville, Illinois 60563 (331) 702-4069

The Chemours Company
Bernard J. Reilly
Chemours Legal D-7054
1007 Market Street
P.O. Box 2047
Wilmington, Delaware 19899
bernard.j.reilly@chemours.com
(302) 773-0061

The Chemours Company David L. Rieser K&L Gates LLP 70 W. Madison Street, Suite 3100 Chicago, Illinois 60602 (312) 807-4359

E I. du Pont de Nemours and Company Patricia McGee Corporate Counsel 1007 Market Street Wilmington, Delaware 19898 Gary Wilkerson Vice President, General Counsel and Secretary Mueller Industries, Inc. 8285 Tournament Drive, Suite 150 Memphis, Tennessee 38125 (901) 753-3200

USS Lead Refinery, Inc. Norman Johnson, Vice President 4780 Caterpillar Road Redding, CA, 96003

Arava Natural Resource Company, Inc.
Registered Agent: The Corporation Trust Company
Corporation Trust Center
1209 Orange Street
Wilmington, DE 19801

Mining Remedial Recovery Company Registered Agent: The Corporation Trust Company Corporation Trust Center 1209 Orange Street Wilmington, DE 19801

Mr. Philip C. Wolf Senior Vice President, General Counsel and Secretary Cyprus Amax Minerals Company 9100 East Mineral Circle Englewood, Colorado 80112

#### Enclosure 3

#### **Fact Sheet**



#### **Contact Information**

Janet Pope Community Involvement Coordinator Coordinators de participación comunitaria 312-333-0628 pope janet@epu.gov

Charles Rodrigues
Community Involvement Coordinator
Coordinator de participación
comenitaria

312-886-7472 rodriguez.charles@eps.gov

Tim Draster Rensedial Project Manager Administrator del proyecto de restauración 312-353-4367 draster.timolity@epa.gov

Ton Aleana Remedial Project Managor Administrador del proyecto de restauración 312-886-7278 nicana.tiomax@epa.gov

You may call EPA tall-free at 800-621-8431, 8:30 a.m. 4:30 p.m., weekdays.

Puede Hamara la EPA sin costo al R00-621-8431, 8:30 mm. 4:30 p.ra., entre sensura

# Access agreements EPA may contact you and usk you to step a descriptor called an access

First may connect you and use you to sign a document called an occess agreement. The secess agreement allows EPA to come only your property to collect soil samples and clean your property.

Acuerdo de Acceso

Activation to Accordo
La EPA poulda commicarse con
usted para pedirle que finne un
decamento llamado acuerdo da
accesa. El acuerdo de acceso permite
que fa EPA vay a a su propiedad para
forase mesetras de llecta y limpio en
propiedad.

# EPA To Begin Cleaning Up Lead-Contaminated Yards

U.S. Smelter and Lead Refinery Superfund Site
East Chicago, Indiana September 2016

U.S. Environmental Protection Agency will seem begin cleaning up contaminated soil in parts of East Chicago's Calumet neighborhood with no cost to the homeowner.

#### Zone:

EPA and the state of Indiana have reached an agreement with Atlantic Richfield Co, and E.I. Du Pont De Nemours and Co, for the two companies to fund the cleanup project.

Soil in the Culumet neighborhood, which is part of the USS Lead Superfund site, contains high levels of lead and assente. EPA will clean up Zone 3 under this agreement starting this mouth (see map, Pago 2).

Zone 3 contains 46% properties and officials received access to sample 411. EPA is notifying property owners about the sampling results. If your property meets the criteria for cleaning, EPA will contact you to discuss the next steps. If you have not received your rampling results, please contact Tim Drexter or Tom Alsamo (see box to left).

EPA will prioritize proporties for cleanup based on lead and arsenic fevels found in the samples. Before work begins, EPA officials will meet with each property owner to discuss details of the cleanup on their property. In general, workers will dig up and remove contaminated sail about 2-feet deep and replace it with clean soil, including 6 inches of topsoil. Than they will put soil on the clean soil, restoring each yard to the condition it was he before work began—all at no cost to the honeowner. ARC and DuPont will manaport the contaminated soil to a licensed landful for proper disposal.

#### Zono :

Preliminary results from soil testing in Zone 2 of the USS Lead Superfund site show head and arsenic levels at tome properties that warrant further action. While the results are still being finalized, EPA is preparing to begin eleatings this fall. Based on the early results, at least 20 properties out of the 136 sampled will be targeted for clearup this tenstruction season, weather permitting.

This summer, FPA began testing properties in Zone 2 to develop an engineering plan for the cleanup of the entire site. Starting at the south edge of the zone – closest to the former USS Lead factory – to date EPA has sampled soil from 136 properties out of 590. FPA will finish sampling this year and will deal with properties needing cleanup in the spring.

PPA will notify residents as soon as final, validated sampling results become available for their properties and then outline fao next steps. EPA will post the data on its website ofter removing personally identifiable information, including street addresses.

Site location and history
The LSS Lead site comprises two areas called "operable units." Operable Unit 1, or OU1, is a 322-aero residential area bounded by Fast Chicago Avenue on the north, Itas!
191st Street on the south, the Indiana Harbor Canal on the west and Parrish Avenue on the cast. OU2 is the former USS Lead facility on 151st Street. EPA often divides after into OHs based on how the land was used; in this case profession over the property of the case profession was not in this case. residential versus industrial use. OUI was then divided into three zones. Zone I is the West Calunct Housing. Project; BPA is currently cleaning homes in Zone 1.

On Nov. 30, 2012, EPA issued its final cleanup plan for OUT, the residential area. The plan includes remerkel and off-site disposal of soil with lead concentrations exceeding 400 milligranus per kilogram, or mg/kg, and assente concentrations exceeding 26 mg/kg.



Map showing OLL, the residential area of the site. An agreement has been reached on cleanup work in Zones 1 and 3. Work in Zono 2 will be done under a separate

El mapa muestra OUI, el área residencial del sitio. Se ha llegado a un nenerdo para las obras de limpieza en los Zonas I y 3. El trabajo en la Zona 2 se hara bajo un acuerdo por separado.

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# EPA empleza a limpiar patios contaminados por plomo

Sitio de Superfund U.S. Smelter and Lead Rofinory East Chicago, Indiana

Septiembre de 2016

La Agencia de Protección Ambiental de los EE, UCI, (UPA, por sus siglas en inglés) contenzará próximamente a limplar la tiente contambacha en partes del barrio Calumet de Fast Chicago.

#### Zona 3

En 2014, la RPA y el estado de Indiana liegaren a un neuerdo con Atlantic Richfield Co. y K.I. Da Pont Do Neumurs and Co., mediante el cual las dos compañías financiarán el proyecto de limpleza.

La tierre en el torrin Calumet, el cual es parte del sitto Superfund lleurado USS Lead, contiene niveles obvadas de plorno y arsérdeo. La parte rosidenteial del sitto fine dividida en tres zonus. La EPA limpiará la Zona 3 bajo este acuerdo. (Fra el tarque en la pógina 2.)

La Zana 3 contiene 468 propledades. La FPA recibió consentimientes de novero para tomar muestras en 411 co usas propledades. La IPA ha concessado a notificar a los duellos de las propledades fes resultados de las muestras formulas en sus propledades. El su propledad comple con fos criterios para la limpleza. La IPA se pondrá en conhacto con tested para habitar de los siguientes pasos. Si nacel aón un ha recibido sus resultados de ha muestras, por fevor cumaniquese con Tim Drexier o Tom Alexno. (Feu el recuedos en la página 1.)

La BPA dará prioridad do limpleza a las propledades bastándose en los níveles do plorou y resentee encourrados en las aquestros tomadas. Antes do empresar las obris, en las aquestros tomadas. Antes do empresar las obris, en acuentes de la EPA se reunirán con enda dueito do propledad para habba sobre los detallas de la limpieza en au propiedad. En general, los trabajadores von a excavor y eliminar la tierra contaminada hasta altededor do 2 pies do profendidad, y la reemplacarán con tierra impulsa, incluyendo 6 pulgados con tierra de cultivo. Luego pondeán esped sobre la tierra limpla, resumando cada patio nía condición en la que estaba unes de que el trabajo consenias ARC y Dalvort imagostado la tierra comenhado a un vertedo sia coste alguna para el tiucho. La ecompañías ARC y Dalvort imagostado la tierra comenhado a un vertedo o aprobado para su disposición deseada.

#### Zona 2

Los resultados preliminates del análicia de muestras de liera en la zuna 2 muestrat que los alveles de planta y arsénico en algunas propiedades requieren la loma de acciones adicionales. Mientras los resultados están siendo finalizados, la EPA se está preparando para luiciar con las limpiezas este oloño. Hasánatos en los primerras resultados, hay por lo menos 20 propiedades de las 136 analizadas que serán elegidas para ser limpiedas está temporada de construcción, si el clima la permite.

Este senaro. La EPA comenzó a analizar mnoveras de propiedades en la zona 2 para crese un plan do lugeniería que gulará la limpiaza en todo el allic. Comenzando cos el berde sur de la zona – lo más ocreano a la antigna fábrica de USS Lead hasta la fecha la RPA ha torrado muscima de 136 peopledades del total de 590, La RPA terminará la tonaz do muestras este año, y certituará tomando occiones en las propiedades que requieran fimpiaza en la printravera.

La EPA les notificarà a los residentes los resulados tan provio ao finalicea y valides para sus propiedades, e los indicarà has signientes pasor. La información también se/A publicada en el sitio web de la EPA, pero se eliminarán datos perconales tales como in dirección de la propiedad.

#### Ubicación e historia del sitto

Id sitio USS Lead está compresto de éos áreas itamadas unidades operables o "OUS". La Unidad Operable 1, tambida conceida como OHI, es un área residencial de 322 ecros limitada por Past Calcago Avenue al mate, Eust 151st Sireet al sue el Carat de Indiano Harbor al ceste, y Parrish Avenue al este, OU2 lieno las antiguas laxialociores de USS Load en 151st Sireet. La EPA pur lo general divide los sitios en OU3 de nomenos o cama se asubs of lestono; en este caso hay uso residencial e

L130 de noviendre de 2012, la EPA emitió su plan final de l'implicar para OU1, que és el facer residencial. El plan Inchya la citatimoriar y dispusición fuera del ritio de la tierra con concentracionas de plomo superiores a 400 milligrames por Elegrano, o mg/kg, y concentraciones de arsénico superiores a 26 ntg/kg.

3

# USS LEAD SITE: EPA to Begin Cleaning Up Yards La EPA Comenzará a Limpiar Patios

A sepreduction incorporate 🚯

Region C Squadres (Solvinias (J. 1.4) 177 West Jackson Child Chicego, M. 2050-1550

SEPA